ABSTRACT OF THE DISCLOSURE

An apparatus for the purification of catalytic cracking gasolines containing dienic and/or acetylenic impurities, and mercaptans, said apparatus comprising at least one selective hydrogenation reactor 3 containing at least one fixed catalyst bed, and having at least one line 1 for introducing a feed, at least one effluent outlet line, and a line supplying hydrogen to the reactor, said reactor being followed by at least one stabilization drum 4 connected to said effluent outlet line, the drum having at least one gas outlet line 5 and at least one stabilized effluent outlet line, and said effluent passing into at least one sweetening reactor 8 comprising at least one effluent inlet line 6 and at least one effluent outlet line, said reactor having close thereto at least one oxidizing agent supply line, said apparatus also comprising at least one drum 9 for degassing the effluent from the sweetening reactor 8, said drum 9 having at least one gas outlet line and at least one outlet line 11 for dedienized, stabilized and sweetened gasoline.

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